FIG. 1

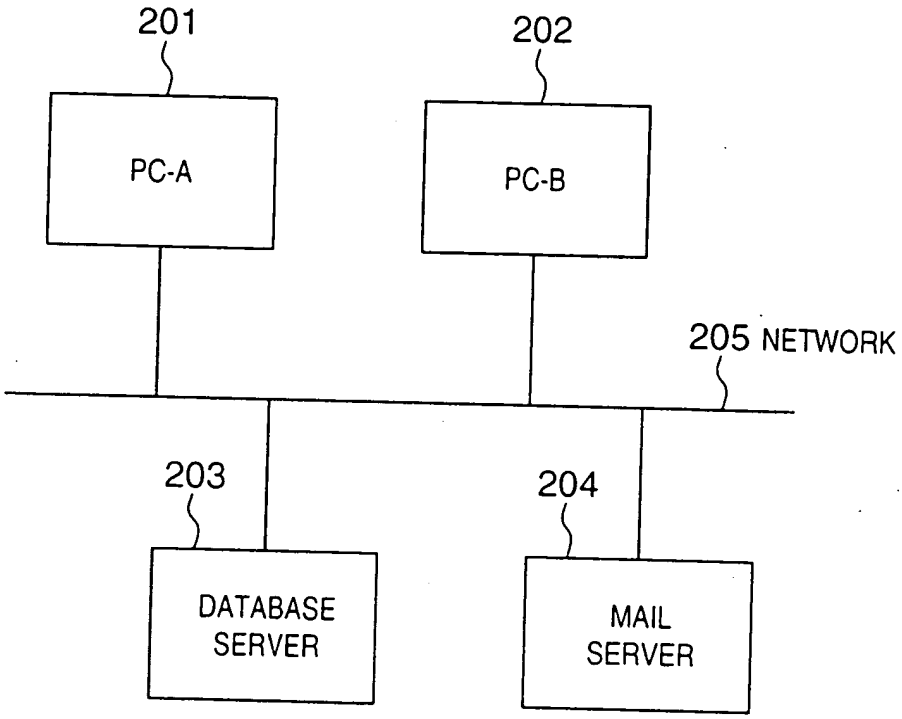

201
202
PC-A
PC-B
205 NETWORK
203
204
DATABASE SERVER
MAIL SERVER

FIG. 2

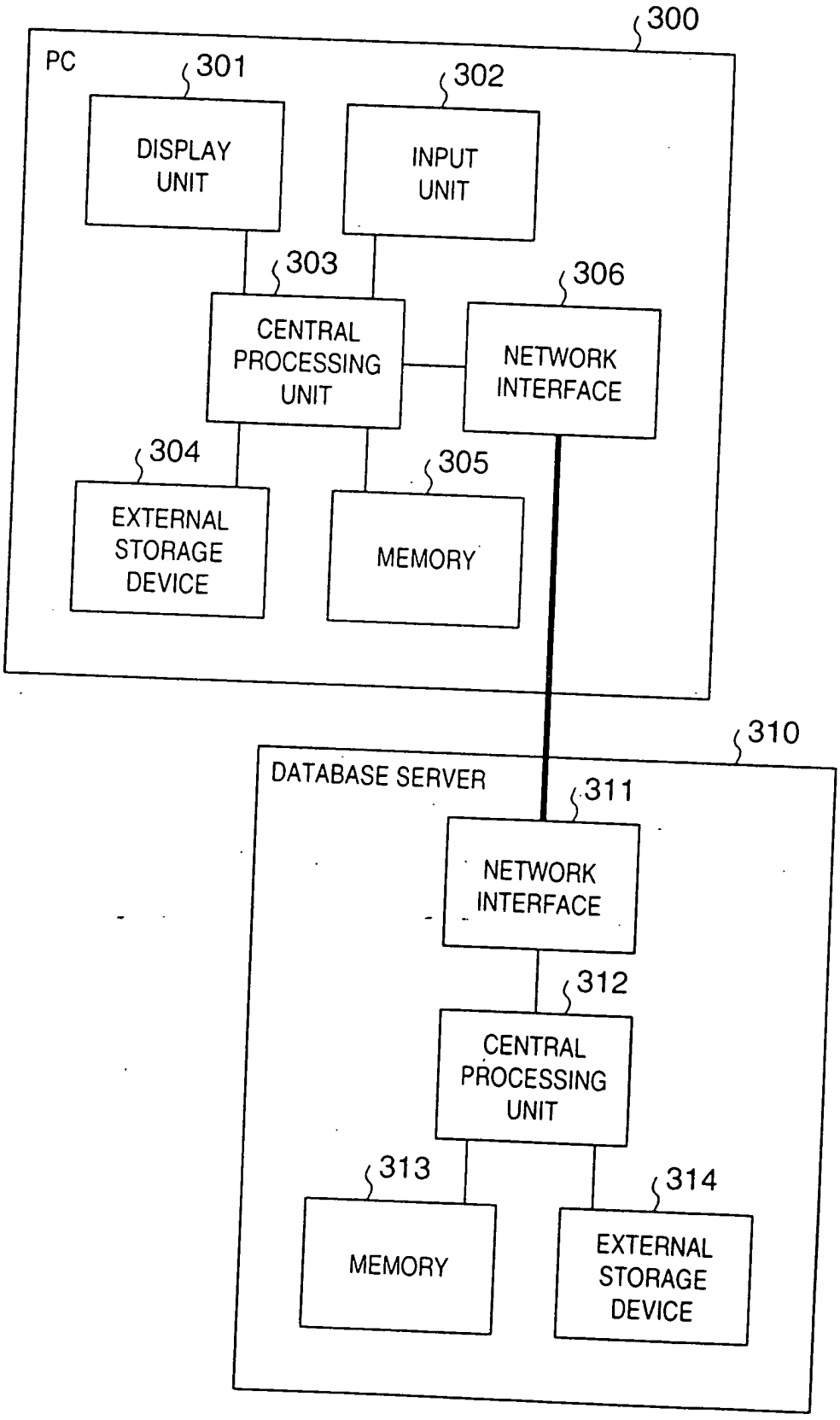

300
PC
301
DISPLAY UNIT
302
INPUT UNIT
303
CENTRAL PROCESSING UNIT
306
NETWORK INTERFACE
304
EXTERNAL STORAGE DEVICE
305
MEMORY
310
DATABASE SERVER
311
NETWORK INTERFACE
312
CENTRAL PROCESSING UNIT
313
MEMORY
314
EXTERNAL STORAGE DEVICE

FIG. 3

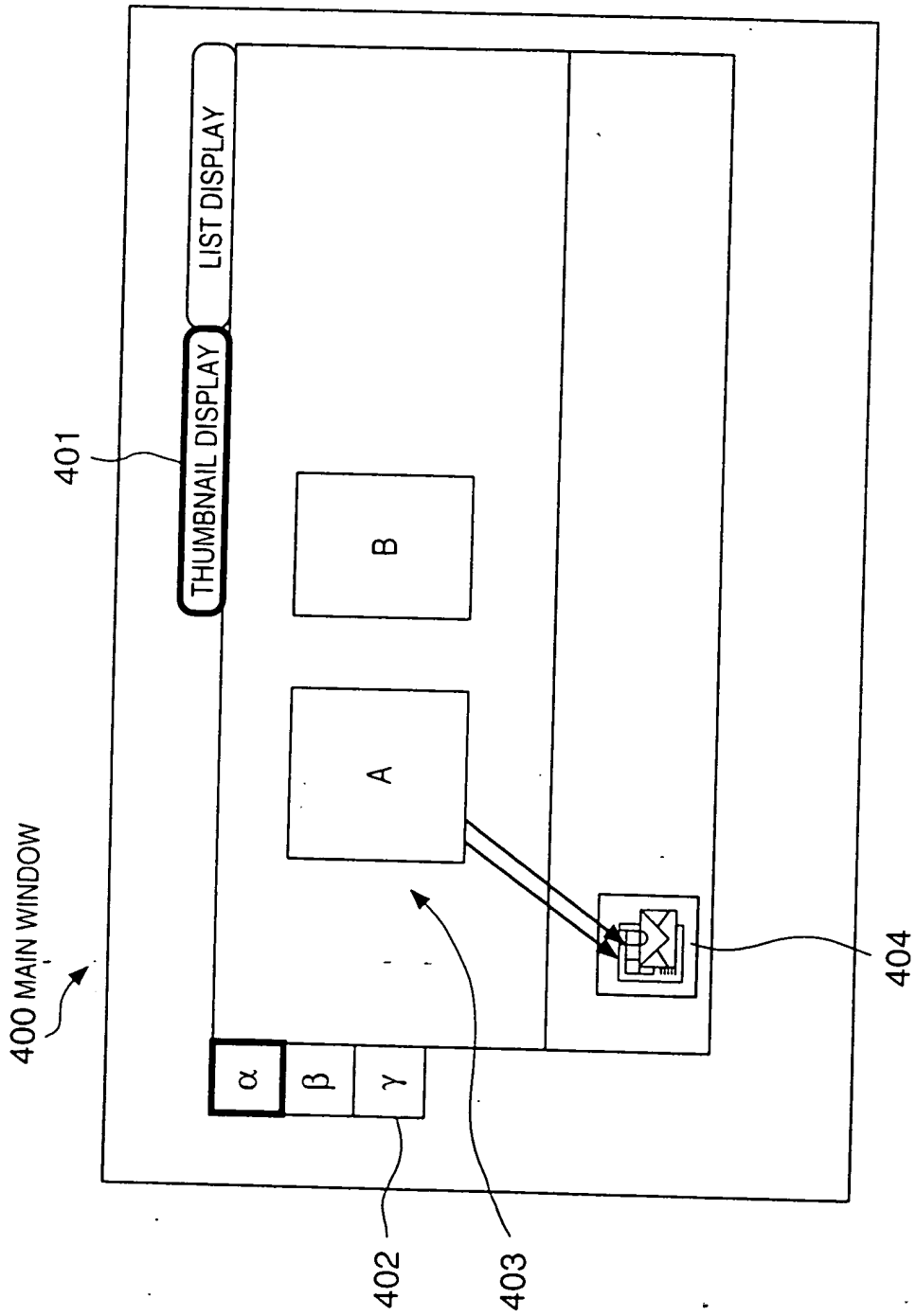

400 MAIN WINDOW
401
THUMBNAIL DISPLAY
LIST DISPLAY
A
B
α
β
γ
402
403
404

FIG. 4

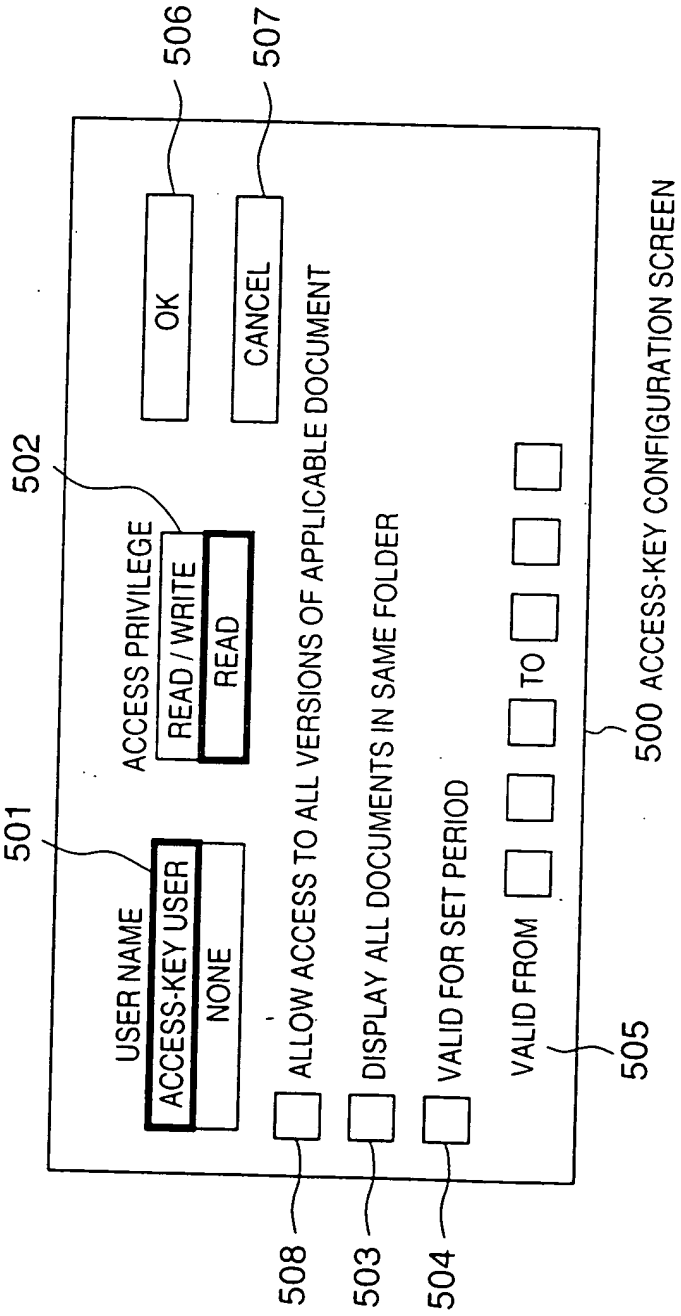

500 ACCESS-KEY CONFIGURATION SCREEN
501
USER NAME
ACCESS-KEY USER
NONE
502
ACCESS PRIVILEGE
READ / WRITE
READ
506
OK
507
CANCEL
ALLOW ACCESS TO ALL VERSIONS OF APPLICABLE DOCUMENT
DISPLAY ALL DOCUMENTS IN SAME FOLDER
VALID FOR SET PERIOD
VALID FROM
TO
505
508
503
504

FIG. 5

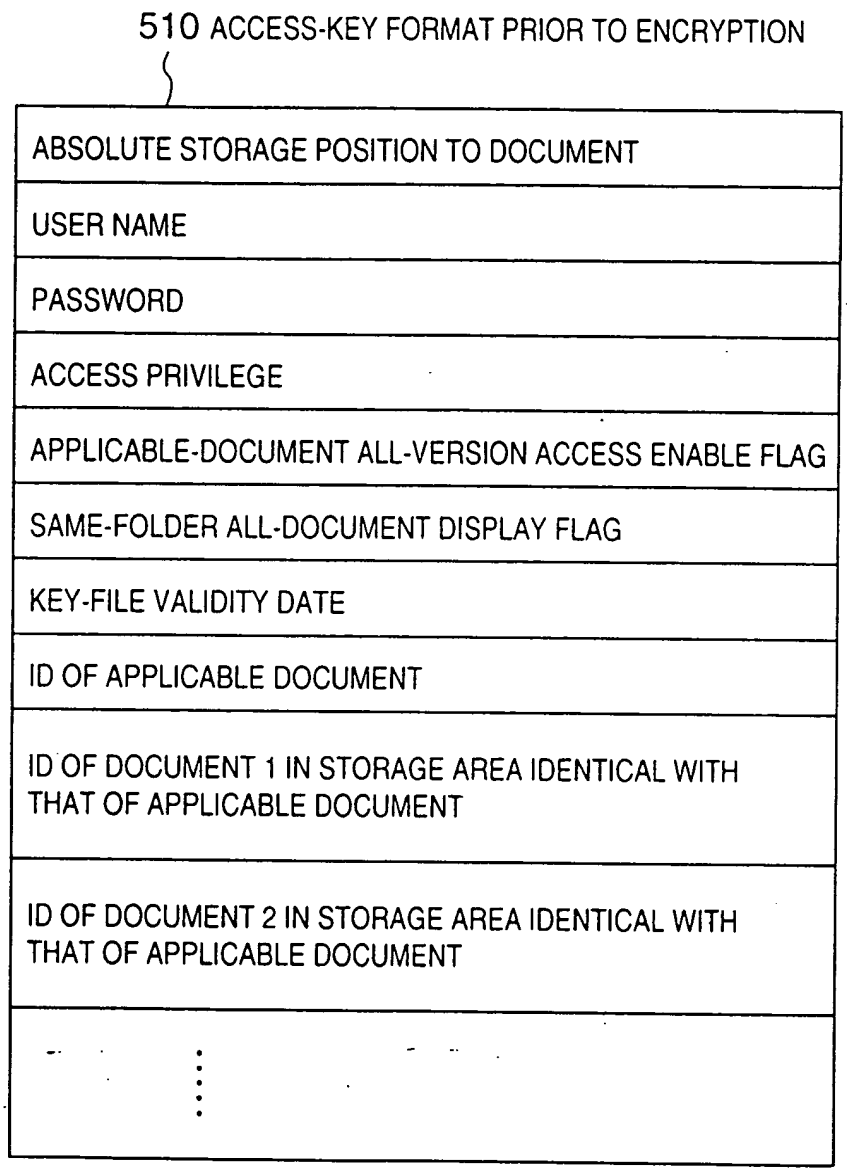

510 ACCESS-KEY FORMAT PRIOR TO ENCRYPTION
ABSOLUTE STORAGE POSITION TO DOCUMENT
USER NAME
PASSWORD
ACCESS PRIVILEGE
APPLICABLE-DOCUMENT ALL-VERSION ACCESS ENABLE FLAG
SAME-FOLDER ALL-DOCUMENT DISPLAY FLAG
KEY-FILE VALIDITY DATE
ID OF APPLICABLE DOCUMENT
ID OF DOCUMENT 1 IN STORAGE AREA IDENTICAL WITH THAT OF APPLICABLE DOCUMENT
ID OF DOCUMENT 2 IN STORAGE AREA IDENTICAL WITH THAT OF APPLICABLE DOCUMENT

FIG. 6A

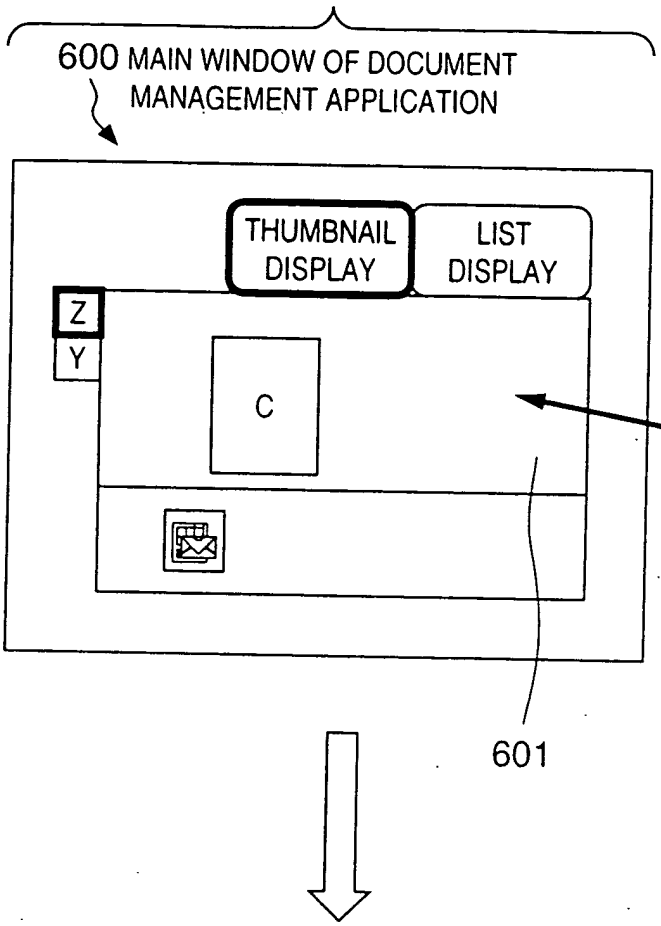


FIG. 6B

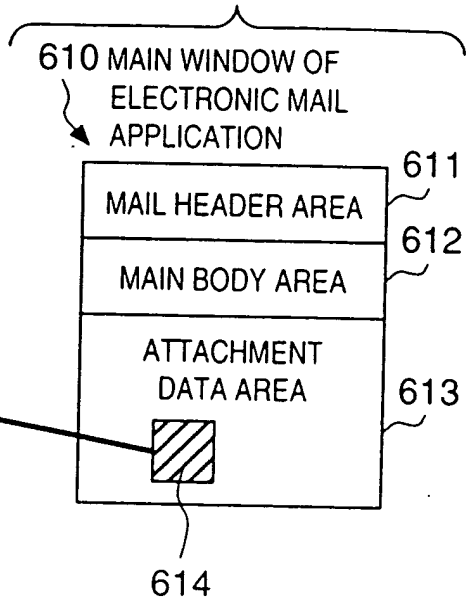


FIG. 6C

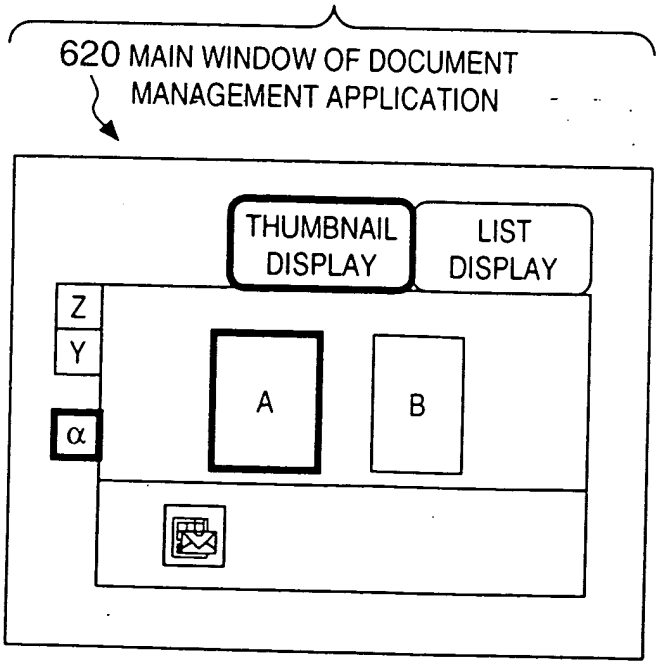


FIG. 7

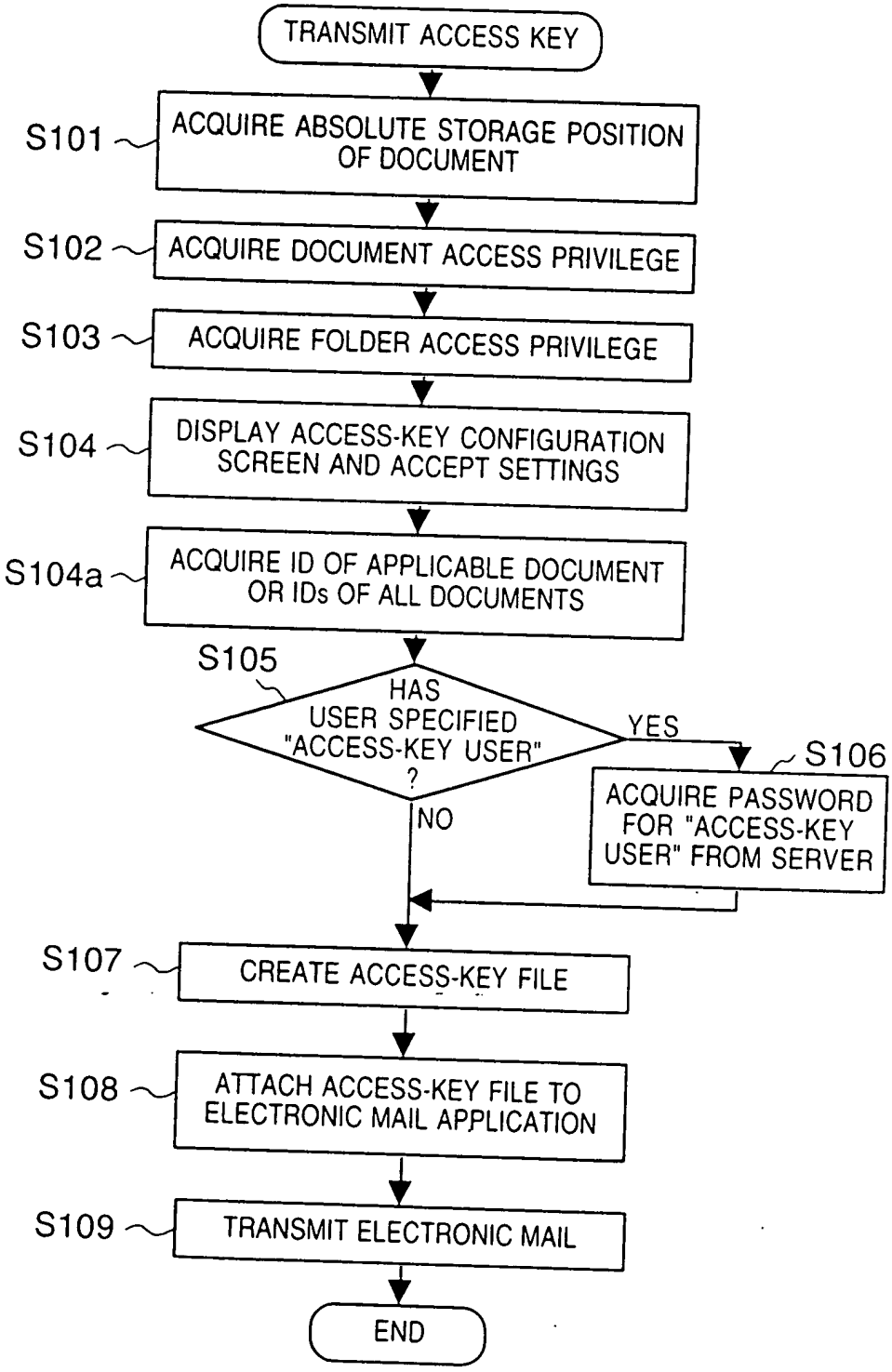

TRANSMIT ACCESS KEY
S101
ACQUIRE ABSOLUTE STORAGE POSITION OF DOCUMENT
S102
ACQUIRE DOCUMENT ACCESS PRIVILEGE
S103
ACQUIRE FOLDER ACCESS PRIVILEGE
S104
DISPLAY ACCESS-KEY CONFIGURATION SCREEN AND ACCEPT SETTINGS
S104a
ACQUIRE ID OF APPLICABLE DOCUMENT OR IDs OF ALL DOCUMENTS
S105
HAS USER SPECIFIED "ACCESS-KEY USER" ?
YES
S106
ACQUIRE PASSWORD FOR "ACCESS-KEY USER" FROM SERVER
NO
S107
CREATE ACCESS-KEY FILE
S108
ATTACH ACCESS-KEY FILE TO ELECTRONIC MAIL APPLICATION
S109
TRANSMIT ELECTRONIC MAIL
END

FIG. 8A

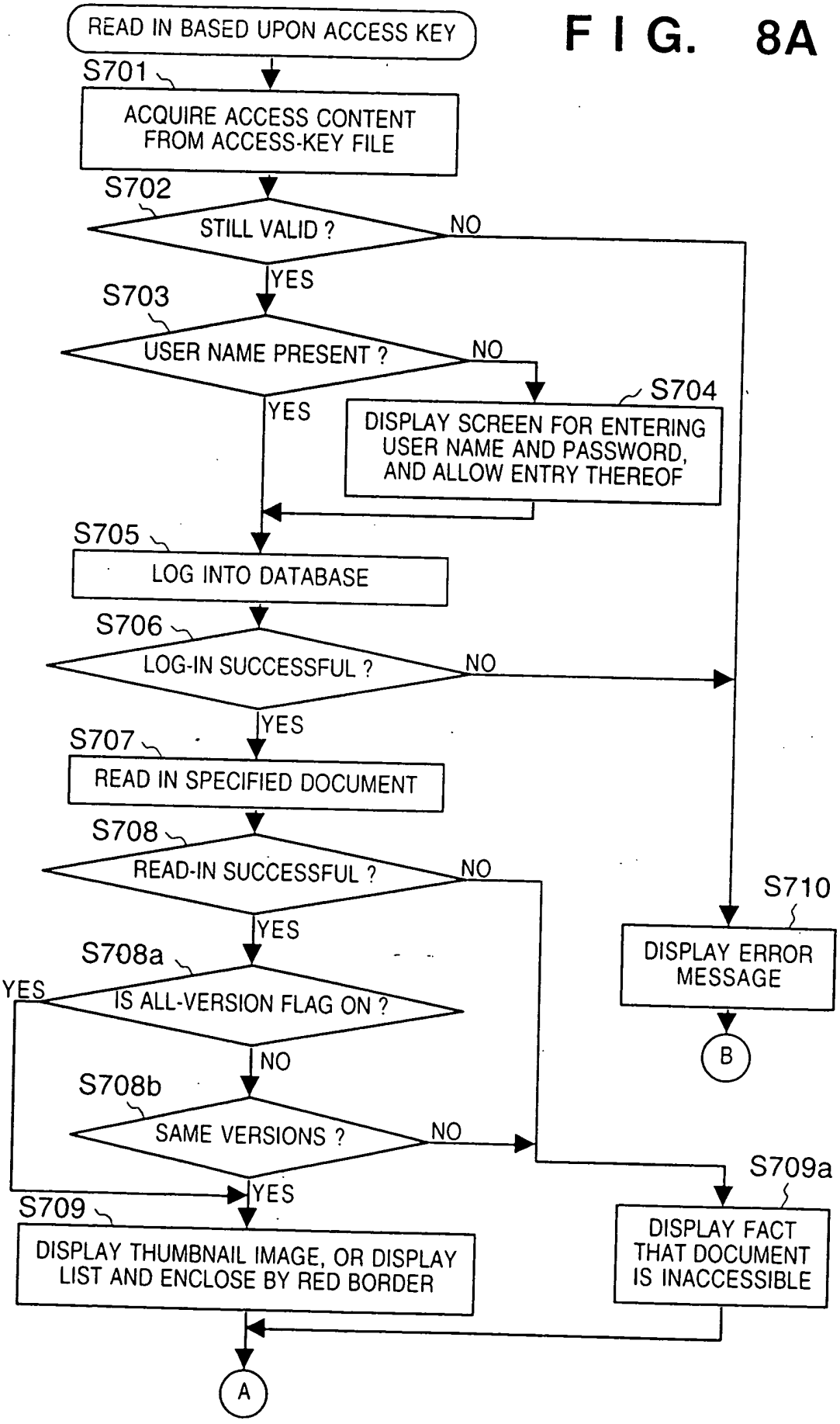
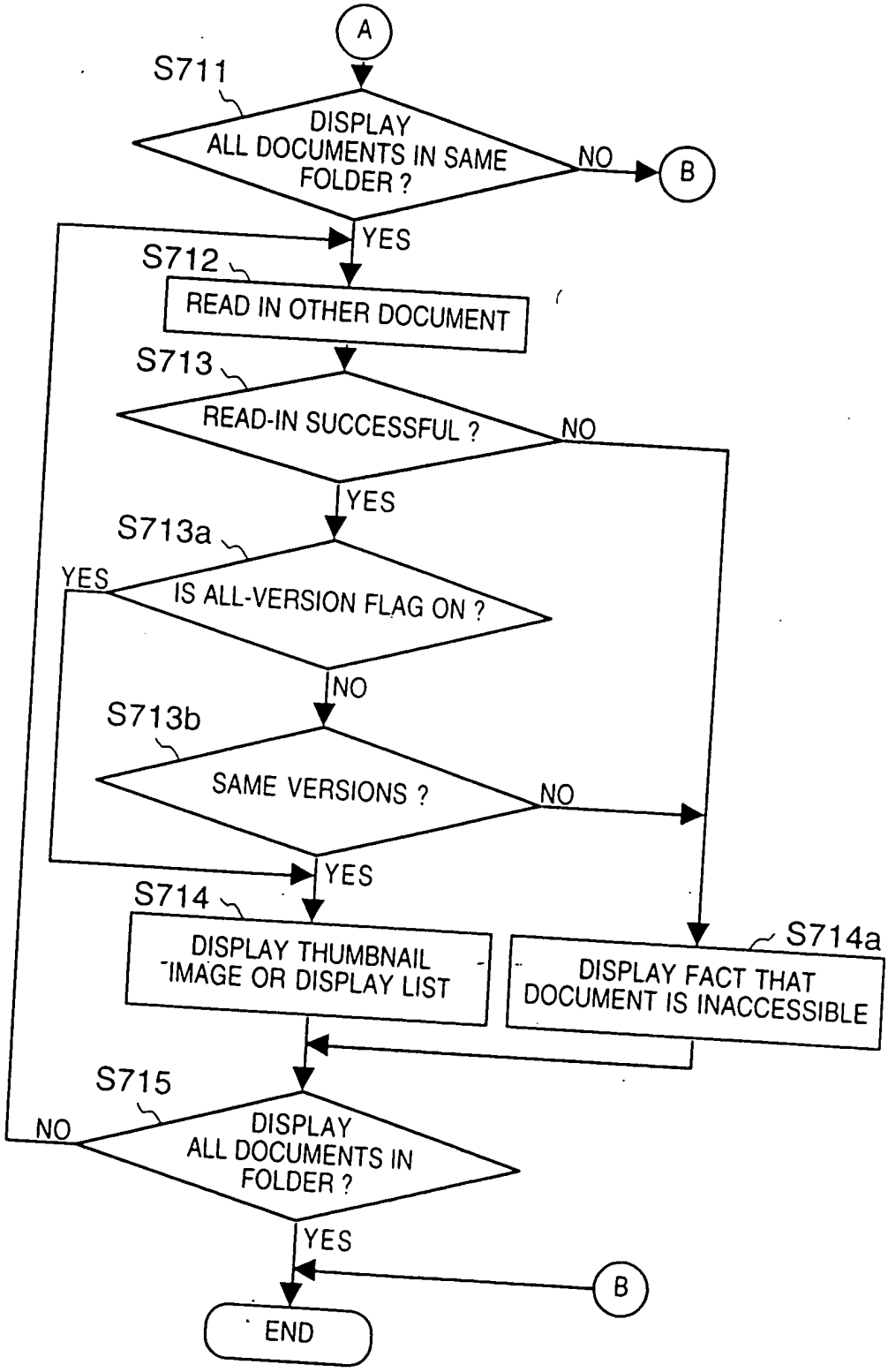

READ IN BASED UPON ACCESS KEY
S701
ACQUIRE ACCESS CONTENT FROM ACCESS-KEY FILE
S702
STILL VALID ?
NO
YES
S703
USER NAME PRESENT ?
NO
YES
S704
DISPLAY SCREEN FOR ENTERING USER NAME AND PASSWORD, AND ALLOW ENTRY THEREOF
S705
LOG INTO DATABASE
S706
LOG-IN SUCCESSFUL ?
NO
YES
S707
READ IN SPECIFIED DOCUMENT
S708
READ-IN SUCCESSFUL ?
NO
YES
S708a
IS ALL-VERSION FLAG ON ?
YES
NO
S708b
SAME VERSIONS ?
NO
YES
S709
DISPLAY THUMBNAIL IMAGE, OR DISPLAY LIST AND ENCLOSE BY RED BORDER
S709a
DISPLAY FACT THAT DOCUMENT IS INACCESSIBLE
S710
DISPLAY ERROR MESSAGE
A
B

FIG. 8B


A
S711
DISPLAY ALL DOCUMENTS IN SAME FOLDER ?
NO
B
YES
S712
READ IN OTHER DOCUMENT
S713
READ-IN SUCCESSFUL ?
NO
YES
S713a
YES
IS ALL-VERSION FLAG ON ?
NO
S713b
SAME VERSIONS ?
NO
YES
S714
DISPLAY THUMBNAIL IMAGE OR DISPLAY LIST
S714a
DISPLAY FACT THAT DOCUMENT IS INACCESSIBLE
S715
NO
DISPLAY ALL DOCUMENTS IN FOLDER ?
YES
B
END